EDITORIALS

ENGINEER'S DANCE

THE ENGINEERS' COUNCIL is host for an Engineering College party or dance each quarter. This quarter the dance is to be given on December 4, on the campus. A good orchestra will dispense great quantities of music while the erstwhile overworked engineer forgets his reports and other troubles, for the time being at least, and enjoys himself. The purpose of the dance is to get the members of all classes acquainted with each other and at the same time afford an evening's entertainment. From past experience all of the upper classmen recommend these dances and are but awating this opportunity to welcome the Frosh Engineer into the company of the pencil and slide rule experts. Let's see the biggest turnout that has even been known, everyone expecting a good time, for that's what you will have. Teamwork will do it.

Watch for later announcements and get a date for December 4.

DEPARTMENTAL SOCIETIES

YEARS AGO some one conceived the idea of having departmental societies, associated with the national engineering societies so that both would be benefited by the contact. The idea was carried out and as a result we have several departmental societies which dutifully hold meetings once a month or oftener in a few cases. These societies have an enormous opportunity to do good, if the student members are but willing to let them and furnish the necessary amount of cooperation. In one department, at least, graduates are rated according to the amount of interest taken in the departmental society's work. This is commendable in that it encourages student participation in activities outside their usual curriculum.

There should be a more widespread interest and a more loyal support of departmental societies this year than there has been in the past if they are to do the most possible good. Each department has leadership material that needs but a following to start. The crying need of departmental societies at present seems to be for some enthusiastic supporters who are willing to do a little real work. Last year two or three organizations started working in earnest and as a result their membership increased by leaps and bounds. The reason for their growth was soon apparent. They had made the meetings so interesting and valuable that the other men did not feel that they could afford to be absent. The spirit of teamwork began to function with the result that when one of these departmental meetings is in progress it is hard to find any of the men in that department unless you go to the meeting. They are the ones that are living up to the dreams and expectations of the founders who conceived the idea that there should be an *esprit de corps* in each department.

INTRAMURALS

IF YOUR DEPARTMENT has not entered in some of the intramural games for the winter you are missing something. This year promises to be one of the best for engineers, since by a special ruling engineers may play on fraternity teams as well as on their departmental teams. This is a special privilege which has been granted to the Engineering College alone. Let's show the intramural department that we appreciate the favor that they have shown us by coming out for everything that we possibly can.

ENGINEERING COLLEGE MAGAZINES ASSOCIATED

NOT LONG SINCE it was our privilege to attend, in company with our business manager, the national convention of the Engineering College Magazines Associated, which was held on the campus of The University of Minnesota, located in Minneapolis, Minn. This association, of which the OHIO STATE ENGINEER is a member, is composed of the leading engineering college magazines of the United States, there being twenty-eight members in all. A complete report of the convention would be quite lengthy but very interesting. One of the outstanding things noticeable was the enthusiasm which seemed to grip all of the men the moment that the convention started. Problems of the various departments of a magazine were discussed with candor and vigor, arguments pro and con, on all questions discussed, continuing long past their allotted time. A formal dance, held at the Beta Theta Pi house the first night of the convention, was a huge success from all standpoints, and added greatly to the success of the project. The next morning new officers were elected and the convention voted to accept the invitation of Ohio State to meet in Columbus next fall.

An inspection was made of the Washburn-Crosby flour mill, the largest in the world, after which a cafeteria lunch was served, with the management of the Washburn-Crosby mill as hosts. Throughout the whole trip our worthy Business Manager clung tenaciously to his new hat, which he had purchased in Chicago. It was rumored that he was so excited when he left Columbus that he had entirely forgotten to take his hat with him. The hat was so popular that it was known as "the convention hat," and he was urgently requested to take good care of it so that it could be worn next year when the members comes to Ohio State. The convention was entirely successful and we will long remember the hospitality shown us by the Gophers.

THESES

DESIRING to encourage the study of arc welding and feeling that the best way to secure the interest of the students would be to offer some remunerary consideration for outstanding work of this nature, The Lincoln Electric Company, Cleveland, Ohio, has offered a cash prize for the best undergraduate thesis on each of twenty subjects dealing with some phase of arc-welding. The prize will be twenty-five dollars for the best thesis submitted on each subject, as well as a cash prize of twenty-five dollars for the best thesis regardless of which subject is taken, making a total of five hundred and twenty-five dollars in prizes. The thesis is to be by an undergraduate and is to be written as a requirement for graduation.

The donors have set the following conditions for the contest:

In case only one thesis is submitted on any subject, the Award Committee reserves the right to decide whether the thesis is of sufficient merit to earn the prize for that subject.

A copy of each thesis submitted is to remain the permanent property of the company.

The subjects offered are as follows:

1. A Study of Arc-Welding Strength in Shear.
2. An Investigation of Internal Stresses in Arc Welds.

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3. An Investigation of the Properties of Arc Welds That Bend and of Those That Do Not Bend to Determine the Reasons.
4. An Investigation of Penetration of Arc-Welding and the Factors Controlling It.
5. An Investigation to Determine the Proportion of Heat in the Arc Flame Developed on the Positive Side Compared with the Amount Developed on the Negative Side and also How the Length of the Arc Affects the Heat Developed.
6. An Investigation of the Comparative Strength of Riveted Joint vs. Arc Welded Joint.
7. An Investigation to Determine the Effect of Size and Length of Arc Welded Bead of Strength.
8. An Investigation of Economies Possible Through the Use of Arc Welded Steel in Place of Cast Iron in Machine Design.
9. A Study of the Proper Placing of Arc Welds to Derive the Greatest Strength.
10. An Investigation to Determine the Amount of Arc-Welding Necessary to Replace Different Sizes of Rivets in Various Sizes of Plates.
11. A Study of the Best Electride and Best Method to be Pursued in Obtaining a Machinable Arc Weld on Cast Iron.
12. A Study of the Electric Rivet and Its Utility.
13. A Study of the Effect of Varying Amount of Carbon in Bare Welding Rod on the Tensile Strength and Ductility of the Arc Weld.
14. An Investigation to Determine the Effect of the Length of the Arc upon the Quality of the Weld.
15. A Study to Determine the Effect of Thickness of Plate on Efficiency of Arc Weld.
16. A Study to Determine the Relative Economies of Arc Welded Lap vs. Butt Joint to Obtain Equal Strength.
17. An Investigation of Relative Economies of Arc Welded Steel Construction vs. Reinforced Concrete in Building of Five Stories or Less.
18. A Design of a Small Highway Bridge Fabricated by Electric Arc Welding.
19. A Design of a Small Industrial Crane with Runway Fabricated by the Electric Arc.
20. A Study of the Possibilities of Arc Welded Structural Steel Basis for such Machines as Pumps, Elevator Engines, etc.